

STIC Search Report

STIC Database Tracking Number: 119444

TO: Mulero Luz L Alejandro

Location: REM 7A19

Art Unit : 1763 April 15, 2004

Case Serial Number: 09/478370

From: Kendra Mellerson

Location: EIC 1700

REM 4B28

Phone: 571-272-2516

Kendra.Mellerson@uspto.gov

Search Notes

No Cases Reported

US 5,792,261



Current session 15/04/2004

(C) QUESTEL 1994 QUESTEL.ORBIT (TM) 1998 Last connection: 09/04/04 16*47*18

15/04/04 14*34*31

WELCOME to QUESTEL.ORBIT- Your Guide to INTELLECTUAL PROPERTY www.questel.orbit.com - Gateway, documentation & IP resource

- PCTFULL: PCT fulltext contents & prices, see INFO PCTFULL
- NEW: Non-Patent Literature file from EPO data, see INFO NPL
- NEW:Starting 09/03, MEM Chrg for Sci-Tech Files, see INFO MEM
- French Patent Applications Fulltext file, see INFO FRFULL
- NTIS & IDPFA/N to be removed from Questel.Orbit Jan 1, 2004
- Citations for GB patents now available in the PlusPat file.
- 2004 Euro & US Dollar Price Lists available on our web-site
- ..FILE / ..INFO / ..GUIDE

Query/Command: FILE PLUSPAT

- Time in minutes :

The cost estimation below is based on Questel's

standard price list

Estimated cost : 0.65 USD

Cost estimated for the last database search : 0.65 USD 0.65 USD

Estimated total session cost

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.

Comprehensive Worldwide Patents database

New Patent Citation Commands & FAM Citation Report - see INFO PATCITE

GB Citations Now Available in PlusPat

GB citations have been added to over 200,000 corresponding GB records in PlusPat. Coverage starts in the 1980's and is updated monthly.

PlusPat now covers cited references from US, EP, PCT, FR and now GB.

Last update of file: 2004/04/07 (YYYY/MM/DD) 2004-14/UP (basic update)

Search statement

Query/Command: US5792261/PN

** SS 1: Results 1

Search statement

Query/Command: PRT FULL NONSTOP LEGALALL

1/1 PLUSPAT - @QUESTEL-ORBIT - image PN US5792261 A 19980811 [US5792261] TI (A) Plasma process apparatus PA (A) TOKYO ELECTRON LTD (JP) PA₀ Tokyo Electron Limited, Tokyo [JP] IN (A) HAMA KIICHI (JP); HATA JIRO (JP); HONGOH TOSHIAKI (JP) AP US62410296 19960329 [1996US-0624102] FD Cont. of US357423 19941216 [1994US-0357423] Continuation of: US5525159 PR US62410296 19960329 [1996US-0624102] JP34387193 19931217 [1993JP-0343871] JP7671794 19940323 [1994JP-0076717] JP7672794 19940323 [1994JP-0076727] US35742394 19941216 [1994US-0357423] IC (A) C23C-016/00 EC C23C-016/44A4 C23C-016/455 C23C-016/50 C23C-016/505 ICO M23C-016/44E20 T01J-237/32C **PCL** ORIGINAL (O): 118723000I; CROSS-REFERENCE (X): 118723000R 156345260 156345290 156345370 156345480 DT Basic CT US4563367; US5167717; US5280154; US5326404; US5413684; US5494522; US5542559; US5580385 **STG** (A) United States patent A plasma CVD apparatus for forming a silicon film on an LCD substrate AB includes a container which is divided into process and upper chambers by a quartz partition plate. A work table on which the substrate is mounted is arranged in the process chamber and a lower electrode to which a high frequency potential is applied is arranged in the work table. First lower and second upper supply heads are arranged between the partition plate and the work table in the process chamber. SiH4 and H2 gas and He gases are supplied through the first and second supply heads. He gas is transformed into plasma while SiH4 and H2 gas is excited and decomposed by the plasma thus formed. Two coils are arranged in

1/1 LGST - ©EPO

PN - US5792261 A 19980811 [US5792261]

AP - US62410296 19960329 [1996US-0624102]

ACT - 20000829 US/RF-A

the upper chamber and high frequency voltages are applied to the coils to

of current flowing through adjacent portions of the coils are the same.

generate electromagnetic field to induce the transforming of He gas into plasma. High frequency voltages applied to the coils are the same in phase and directions

REISSUE APPLICATION FILED EFFECTIVE DATE: 20000106

UP - 2003-22

1/1 CRXX - ©CLAIMS/RRX

PN - 5,792,261 A 19980811 [US5792261]

PA - Tokyo Electron Ltd JP

ACT - 20000106 REISSUE REQUESTED

Issue Date of O.G.: 20000829

Reissue Request Number: 09/478370

Examination Group responsible for Reissue process: 1763

Query/Command: FILE INPADOC

Q	Query/Command . FILE INPADOC			
PLUSPAT - Time in minut The cost estimation below is standard price list	based on Questo			
Records displayed and billed				
Cost setimated for the 1	Estimated cost	:		
Cost estimated for the last				
Estimated total session cost		:	3.32	USD
LGST - Time in minute The cost estimation below is standard price list	es : 0,09 based on Queste	el's		
	Estimated cost	:	0.11	USD
Records displayed and billed	: 1			
	Estimated cost	:	0.60	USD
Legal-Status informations	: 1			
	Estimated cost	:	0.50	USD
Cost estimated for the last of	database search	:	1.21	USD
Estimated total session cost		:	4.53	
CRXX - Time in minutes: 0,06 The cost estimation below is based on Questel's standard price list				
	Estimated cost	:	0.10	USD
Records displayed and billed	: 1			
Legal-Status informations	Estimated cost: 1	:	5.50	USD
	Estimated cost	:	0.50	USD
Cost estimated for the last of			6.10	USD
Estimated total session cost		:	10.63	USD
LITA - Time in minutes: 0,01 The cost estimation below is based on Questel's standard price list				
	Estimated cost	:	0.02	USD
Cost estimated for the last of	latabase search	:	0.02	USD
Estimated total session cost			10.65	
Selected file: INPADOC				

You are now connected to INPADOC

Covers 1968/1973 thru weekly updates (2004-15) For information on content, (..)INFO INPD.

Search statement 1

Query/Command: FAM US5792261/PN

1 Patent Groups

** SS 1: Results 7

Search statement 2

Query/Command: FAMSTATE NONSTOP

1/7 INPADOC - ©INPADOC

PN - JP 3150027 B2 20010326 [JP3150027]

AP - JP 76717/94-A 19940323 [1994JP-0076717]

PR - JP 76717/94-A 19940323 [1994JP-0076717]

JP 343871/93-A 19931217 [1993JP-0343871]

IC - H01L-021/205; C23C-016/505; G02F-001/1368; H01L-021/31; H05H-001/46

2/7 INPADOC - ©INPADOC

PN - JP 3422583 B2 20030630 [JP3422583]

AP - JP 329329/94-A 19941201 [1994JP-0329329]

PR - JP 329329/94-A 19941201 [1994JP-0329329] JP 76727/94-A 19940323 [1994JP-0076727]

IC - H01L-021/205; C23C-016/44; H01L-021/3065; H01L-021/31; H05H-001/46

3/7 INPADOC - ©INPADOC

PN - JP 7226383 A2 19950822 [JP07226383]

TI - PLASMA GENERATING DEVICE AND PLASMA TREATMENT DEVICE USING THIS PLASMA GENERATING DEVICE

IN - HAMA KIICHI; HATA JIRO

PA - TOKYO ELECTRON LTD

AP - JP 76717/94-A 19940323 [1994JP-0076717]

PR - JP 76717/94-A 19940323 [1994JP-0076717]

JP 343871/93-A 19931217 [1993JP-0343871]

IC - H01L-021/205; C23C-016/50; H01L-021/31

4/7 INPADOC - ©INPADOC

PN - JP 7312348 A2 19951128 [JP07312348]

TI - METHOD AND APPARATUS FOR TREATMENT

IN - HATA JIRO; HAMA KIICHI; HONGO TOSHIAKI

PA - TOKYO ELECTRON LTD

AP - JP 329329/94-A 19941201 [1994JP-0329329]

PR - JP 329329/94-A 19941201 [1994JP-0329329]

JP 76727/94-A 19940323 [1994JP-0076727]

IC - H01L-021/205; H01L-021/31; H05H-001/46

5/7 INPADOC - ©INPADOC

PN - KR 272189 B1 20001201 [KR-272189]

TI - PLASMA TREATMENT APPATATUS

IN - HAMA KIICHI [JP]; HATA JIRO [JP]; HONGO DOSHIAKI [JP]

PA - TOKYO ELECTRON LTD [JP]

AP - KR 9434797/94-A 19941217 [1994KR-0034797]

PR - JP 343871/93-A 19931217 [1993JP-0343871] JP 76717/94-A 19940323 [1994JP-0076717] JP 76727/94-A 19940323 [1994JP-00767271

IC - H01L-021/302

6/7 INPADOC - ©INPADOC

PN - US 5525159 A 19960611 [US5525159]

TI - PLASMA PROCESS APPARATUS

IN - HAMA KIICHI [JP]; HATA JIRO [JP]; HONGOH TOSHIAKI [JP]

PA - TOKYO ELECTRON LTD [JP]

AP - US 357423/94-A 19941216 [1994US-0357423]

PR - JP 343871/93-A 19931217 [1993JP-0343871] JP 76717/94-A 19940323 [1994JP-0076717] JP 76727/94-A 19940323 [1994JP-0076727]

IC - C23C-016/00

1/1 LEGALI - ©EPO

PN - US5525159 A 19960611 [US5525159]

AP - US35742394 19941216 [1994US-0357423]

ACTE - 19941216 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: TOKYO ELECTRON LIMITED 3-6 AKASAKA 5-CHOME,

MINATO; EFFECTIVE DATE: 19941208

19941216 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HAMA, KIICHI,; EFFECTIVE DATE: 19941208

19941216 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HATA, JIRO; EFFECTIVE DATE: 19941208

19941216 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HONGOH, TOSHIAKI; EFFECTIVE DATE: 19941208

UP - 2003-22

7/7 INPADOC - ©INPADOC

PN - US 5792261 A 19980811 [US5792261]

TI - PLASMA PROCESS APPARATUS

IN - HAMA KIICHI [JP]; HATA JIRO [JP]; HONGOH TOSHIAKI [JP]

PA - TOKYO ELECTRON LTD [JP]

AP - US 624102/96-A 19960329 [1996US-0624102]

PR - US 624102/96-A 19960329 [1996US-0624102]

JP 343871/93-A 19931217 [1993JP-0343871]

JP 76717/94-A 19940323 [1994JP-0076717]

JP 76727/94-A 19940323 [1994JP-0076727]

US 357423/94-A1 19941216 [1994US-0357423]

IC - C23C-016/00

1/1 LEGALI - ©EPO

PN - US5792261 A 19980811 [US5792261]

AP - US62410296 19960329 [1996US-0624102]

ACTE - 20000829 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000106

UP - 2003-22

PATNO IS 5792261

DATE: APRIL 15, 2004
LIBRARY: PATENT
FILE: ALL

Your search request is: PATNO IS 5792261

Number of PATENTS found with your search request through:

Your search request has found 1 PATENT through Level 1. To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMTS key. To MODIFY your search request, press the M key (for MODFY) and then the ENTER

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 5792261 , August 11, 1998 , Plasma process apparatus, Hama, Kiichi, Chino, JP; Hata, Jiro, Yamanashi-ken, JP; Hongoh, Toshiaki, Yamanashi-ken, JP, 624102 (08), Tokyo Electron Limited, Tokyo, JP

CORE TERMS: substrate, chamber, coil, gas, plasma, pipe, film, sub, supplied, electrode \dots

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5792261

<=1> GET 1st DRAWING SHEET OF 10

August 11, 1998

Plasma process apparatus

REISSUE: Reissue Application filed Jan. 6, 2000 (O.G. Aug. 29, 2000) Ex. Gp.: 1763; Re. S.N. 09/478,370, (O.G. August 29, 2000)

APPL-NO: 624102 (08)

FILED-DATE: March 29, 1996

GRANTED-DATE: August 11, 1998

CORE TERMS: substrate, chamber, coil, gas, plasma, pipe, film, sub, supplied,

electrode ...

5792261 OR 5,792,261

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.